DELONE, B.N.; RYSHKOV, S.S.

Solution of the problem of the loosest latticed covering for a four-dimensional space by identical spheres. Dokl. AN SSSR 152 no.3:523-524 S '63. (MIRA 16:12)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR. 2. Chlen-korrespondent AN SSSR (for Delone).

DELONE, B.N.; SANDAKOVA, N.N.; RYSHKOV, S.S.

Optimal cubature lattice for functions of two variables that are smooth on all sides. Dokl. AN SSSR 162 no.6:1230-1233 Je '65. (MIRA 18:7)

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AUTHOR: Delone, B. N. (Corresponding member AN SSSR)

ORG: none

TITLE: Supplement to my 1933 work on regular crystal arrangement

SOURCE: AN SSSR. Doklady, v. 161, no. 3, 1965, 511-514

TOPIC TACS: crystal lattice structure, vector

The author states that the present article is in response to frequent ABSTRACT :: inquiries from foreign crystallographers as to how to express the vectors of a crystallographic Bravais n-hedral (i.e., an n-hedral formed by the edges of a Bravais parallelepiped) by vectors of an arbitrary initial-base lattice n-hedral. The system names used by the author are cubic, quadratic, orthogonal, monoclinic, triclinic, rhombohedral and hexagonal, designated respectively by the letters K, Q, O, M, T, R, H. Individual types of lattices in the same system are donated by subscripts to these lotters (e.g., M1, M2, M3, ..., M6) chosen arbitrarily by the author. A rule is stated for vector transformation in the reduction of a tetrahedral symbol, and examples are given. The article also solves the question of a single-valued choice of a Bravais n-hedral in the case of monoclinic and triclinic lattices, and there are two pages of illustrations. Orig. art. has: 12 figures. [JPRS]

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C NR: AP6017469	SOURCE CODE: UR/0020/65/162/006/123	18 /S
AUTHOR: Delone, B.N. (Correspondent Property of the Property o	omling member AN SSSE; Sandakova, N. N.;	18 B
ORG: none		
TITLE: Optimal cubature lattivariables	ce for completely smooth functions of two	
SOURCE: AN SSSR. Doklady, V.	162, no. 6, 1965, 1230-1233	
	ulus, mathematic transformation, hodograph rem is proved: The lattice $rac{2}{1}$ , construc	7
a right triangle, is a two-di Methods of <u>differential culcu</u> are used for the proof: 1) T right triangle centered on po obtained from it by equi-affi triangle and leaving point 0 lattice $\Gamma$ having minimum dis	mensional optimum lattice for any m > 2.	emmas, of a gles he initial l

right triangle	centered at no	a hodograph is shown for hyperbolic rotations of a bin O and a unit leg is equal to the component			
introduced by the	he triangle it	se f. Orig.	art. has: 2	figures, 1 for	mponent
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